

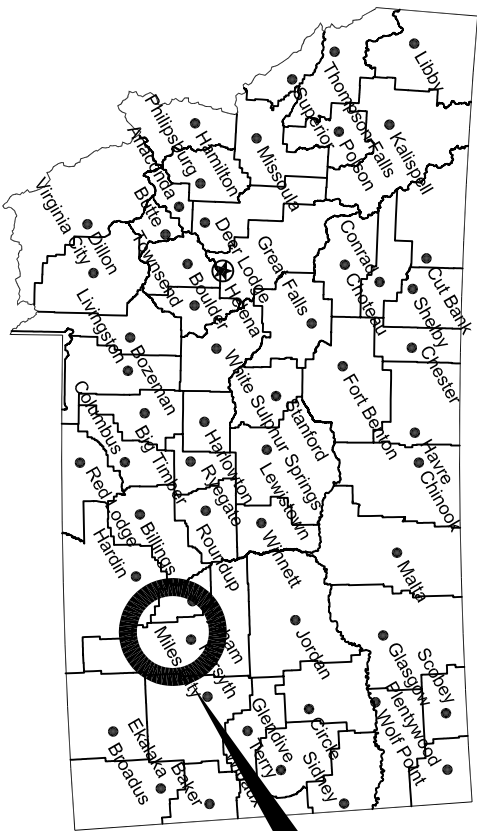
A Project To

Replace Kettle

Miles City Fish Hatchery

Miles City, MT

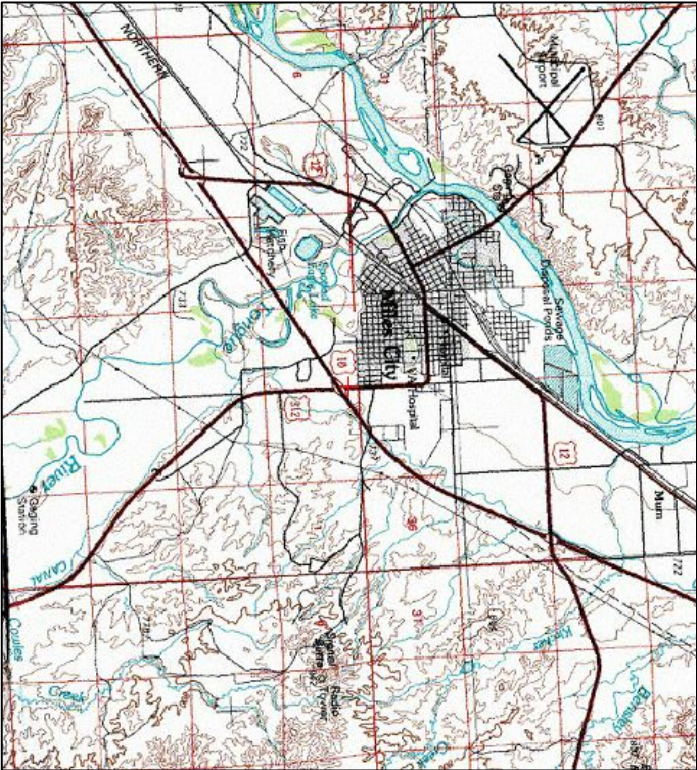
FWP# 7133102



Project
Location



North



Vicinity Map

No Scale

Location Map

No Scale

MONTANA FISH, WILDLIFE AND PARKS
DESIGN AND CONSTRUCTION BUREAU
MAILING ADDRESS: PHYSICAL ADDRESS:
PO BOX 200701 1522 9th AVENUE
HELENA, MT 59620-0701 HELENA, MT 59601
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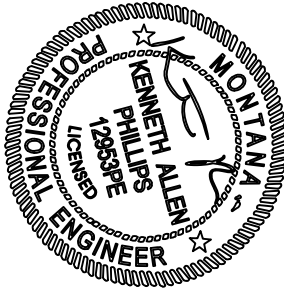
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K Phillips	2014
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Montana Fish,
Wildlife & Parks

Cover Sheet
Miles City Fish Hatchery

SHEET: 1 of 10

Property limits

NOTE:
Use extreme diligence when driving between hatchery ponds. Steep drop offs and narrow roadways. Contractor vehicles only on Jobsite.

Property limits

Contractor Staging Area

Property limits



To US I-94
business loop

Property limits



Kettle to be
Replaced.

Pond No. 7

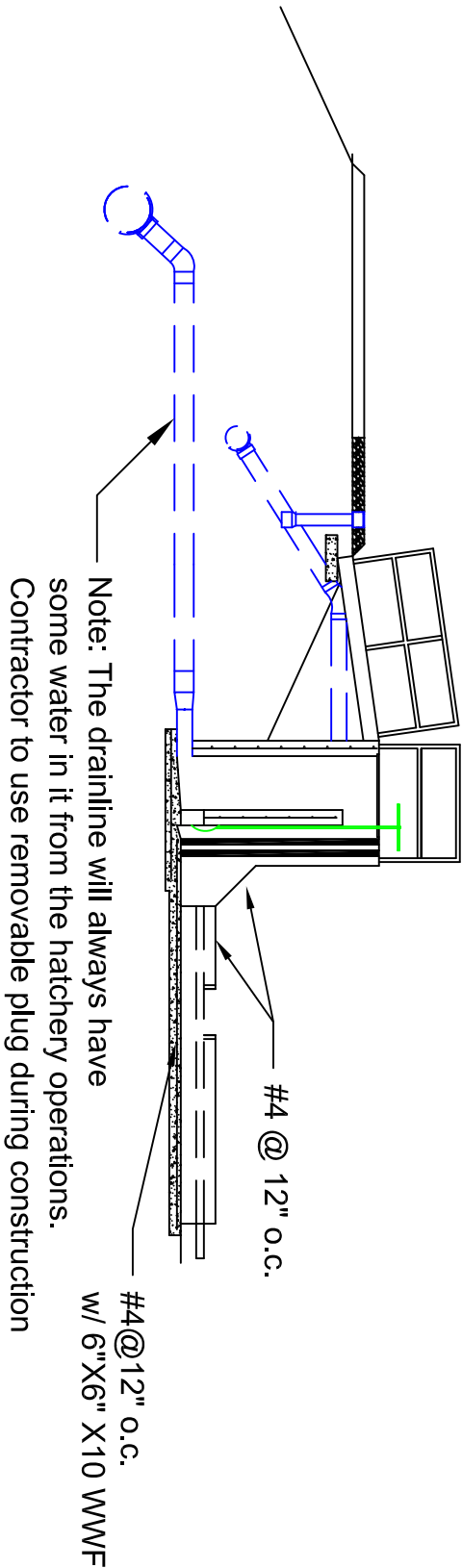
To Camel's Hump

Main
Hatchery
Bldg

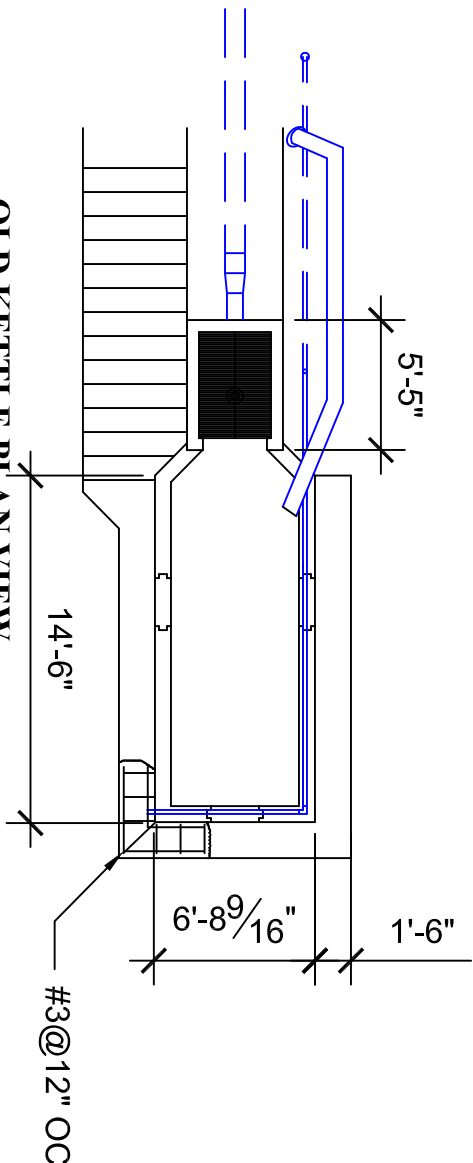
SITE PLAN

K Phillips		2013	
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Site Plan		Site Plan	
Miles City Fish Hatchery		Miles City Fish Hatchery	
7133102		7133102	
SHEET:		SHEET:	
2 of 10		2 of 10	

This sheet scaled at
1/4"=1' on 11X17 paper



OLD KETTLE SECTION



OLD KETTLE PLAN VIEW


Demolition notes:
Work to include the removal of existing old style kettle complete with basin, tower, concrete steps, walk way, grating, railing and sluice gate assembly.
All aluminum walkways and railings as well as gates, valves and grating to owner for salvage.
2" PVC line to be removed back to street valve.
8" supply line removed back to accomodate new connection.
10" drain to be removed just past transition.



PHOTO OF KETTLE TOWER



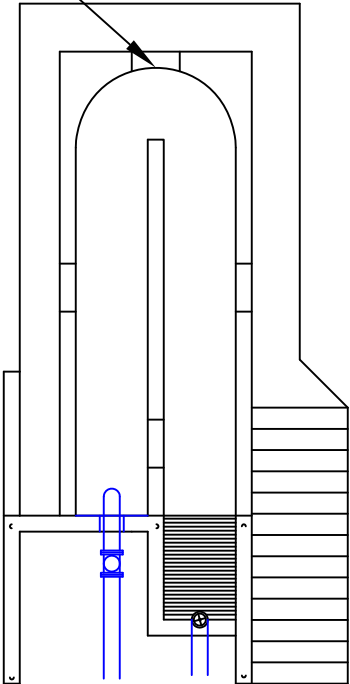
PHOTO OF KETTLE BASIN

K Phillips		2013					
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CHECKED BY:	DATE:	APPROVED BY:	DATE:	APPROVED BY:	DATE:		
						Old Kettle Demolition	
						Miles City Fish Hatchery	
						71333102	SHEET: 3 of 10



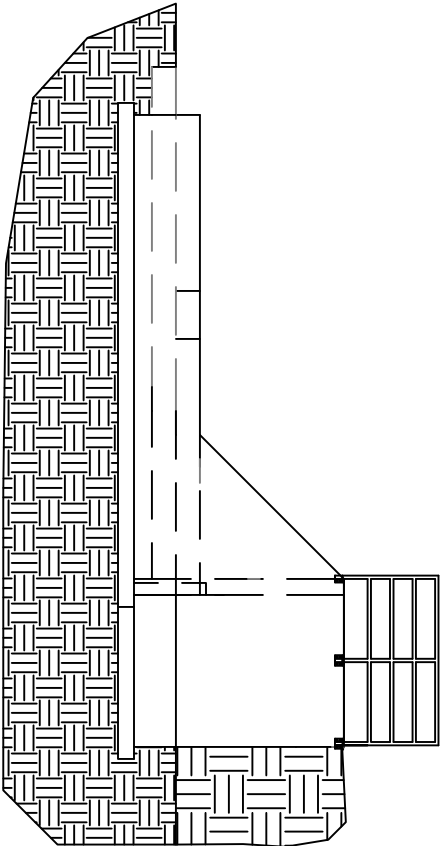
SIMILAR KETTLE PHOTO

This Sheet is to show completed Kettle plan and elevation. For detail dimensions see following sheets. Scaled at 1/4"=1' on 11X17 paper

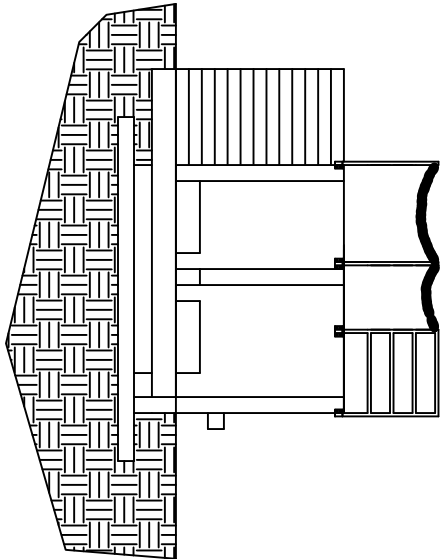


SCHEMATIC PLAN VIEW

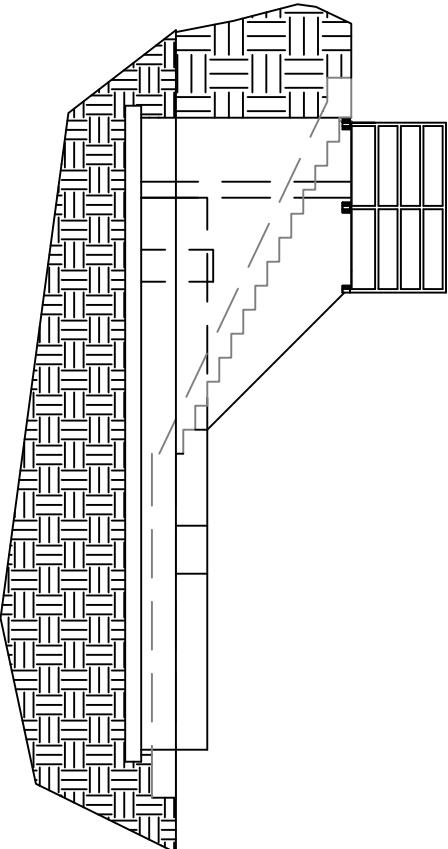
It is imperative that the end be a true radius and that the raceway walls be true and plumb with minimal voids so that fish can be harvested. No tangents in radius.



EAST ELEVATION



SOUTH ELEVATION



WEST ELEVATION

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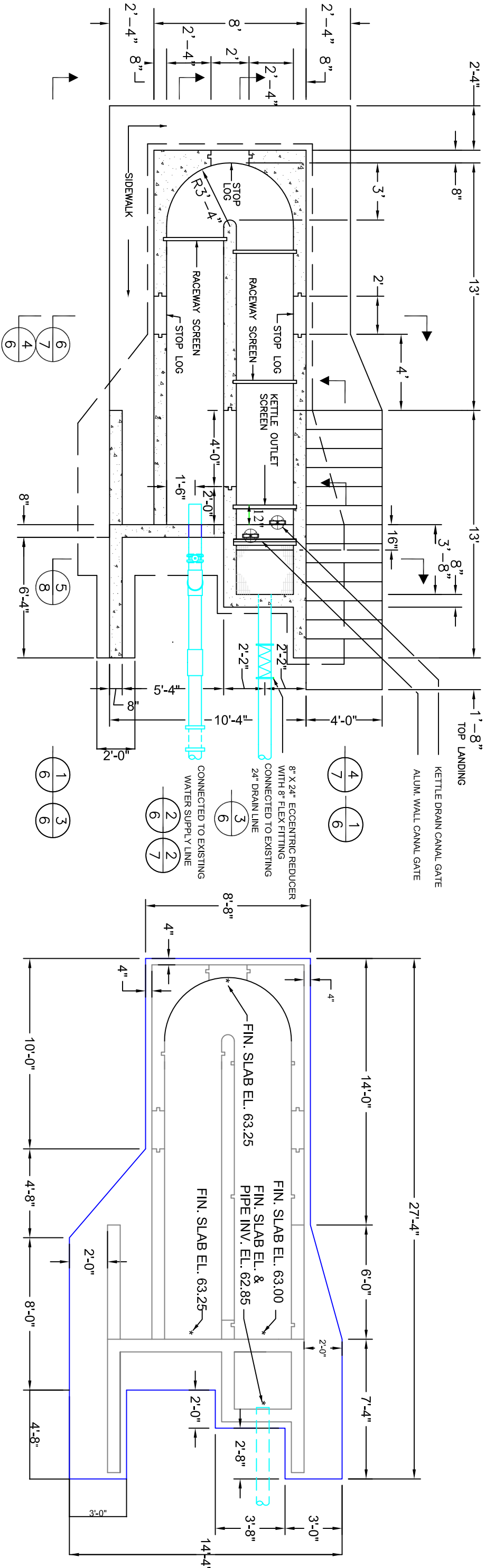


**Montana Fish,
Wildlife & Parks**

Kettle Plan & Elevations
Miles City Fish Hatchery

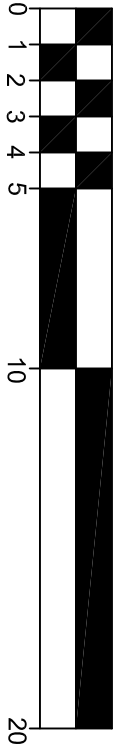
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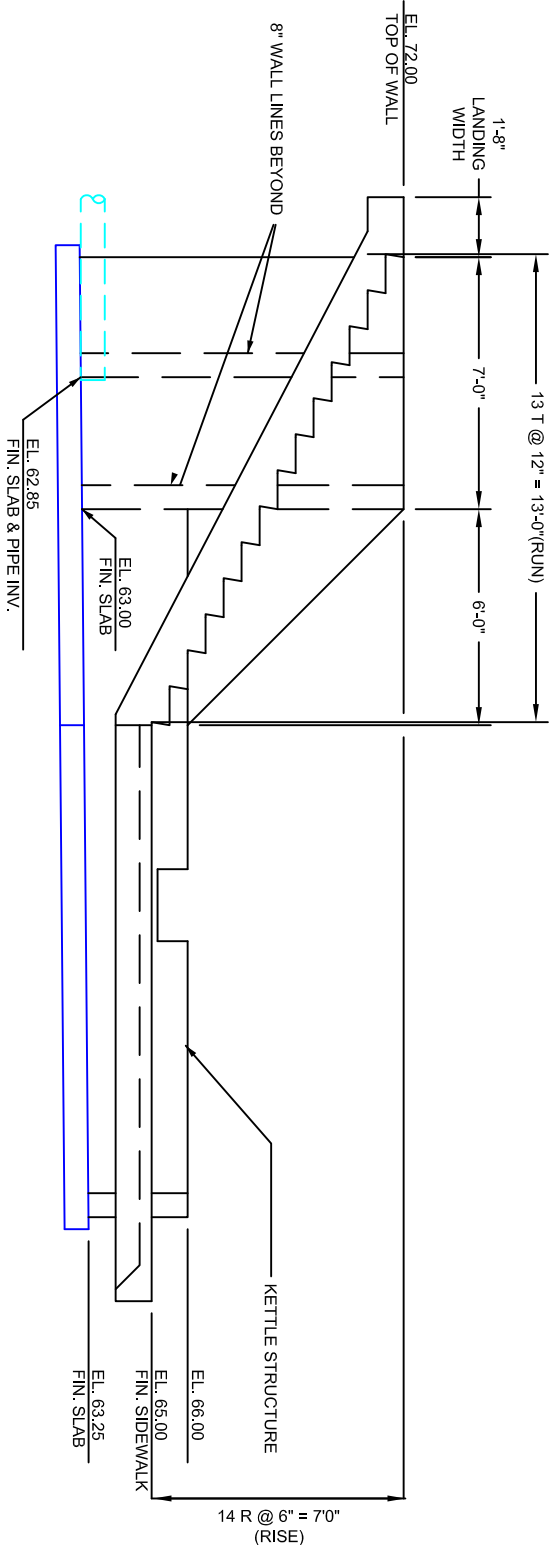
SHEET: 4 of 10



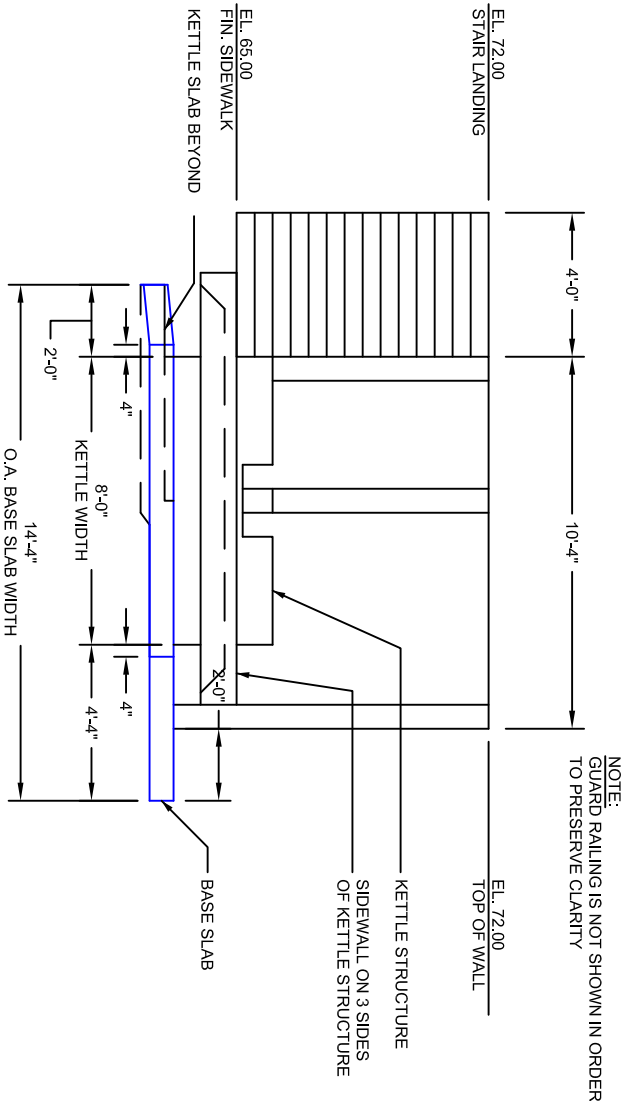
KETTLE WALL PLAN

KETTLE SLAB PLAN

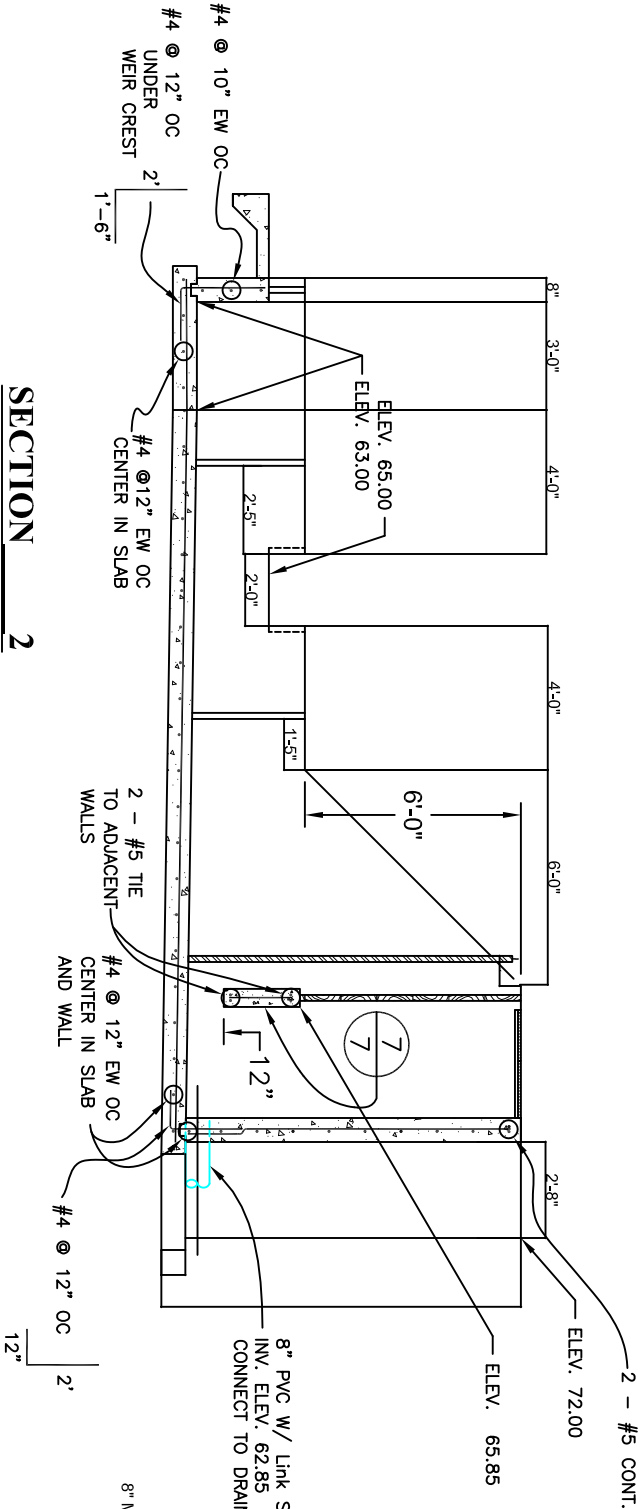




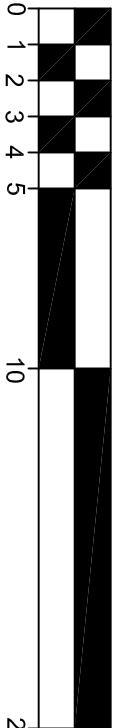
SECTION 1
6



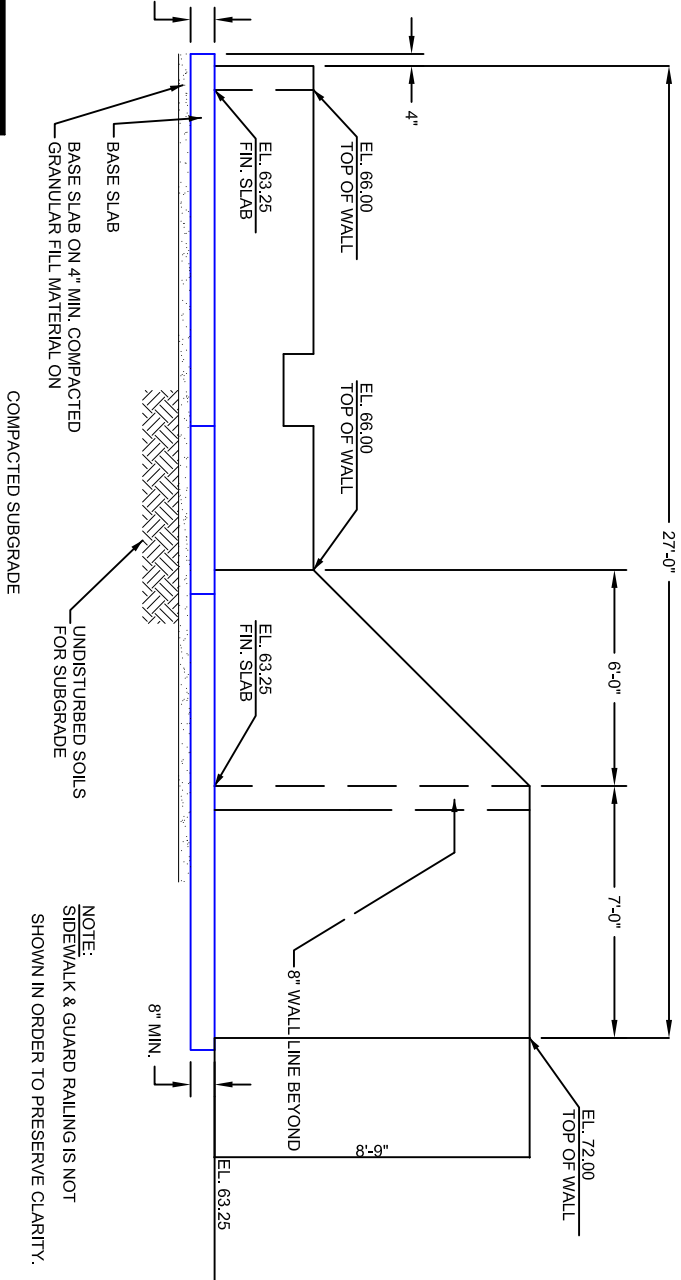
SECTION 4
6



SECTION 2
6



SECTION 3
6



NOTE:
SIDEWALK & GUARD RAILING IS NOT
SHOWN IN ORDER TO PRESERVE CLARITY.

NOTE:
GUARD RAILING IS NOT SHOWN IN ORDER
TO PRESERVE CLARITY

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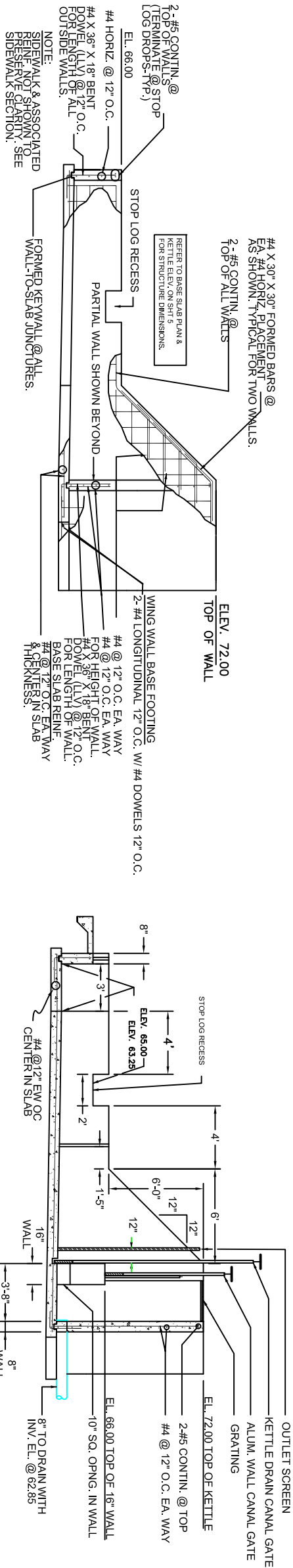
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Kettle Sections

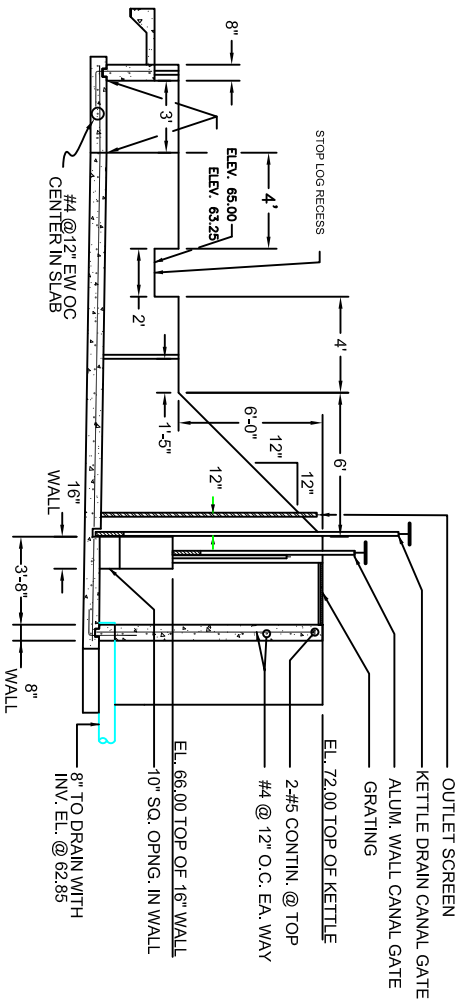
Miles City Fish Hatchery

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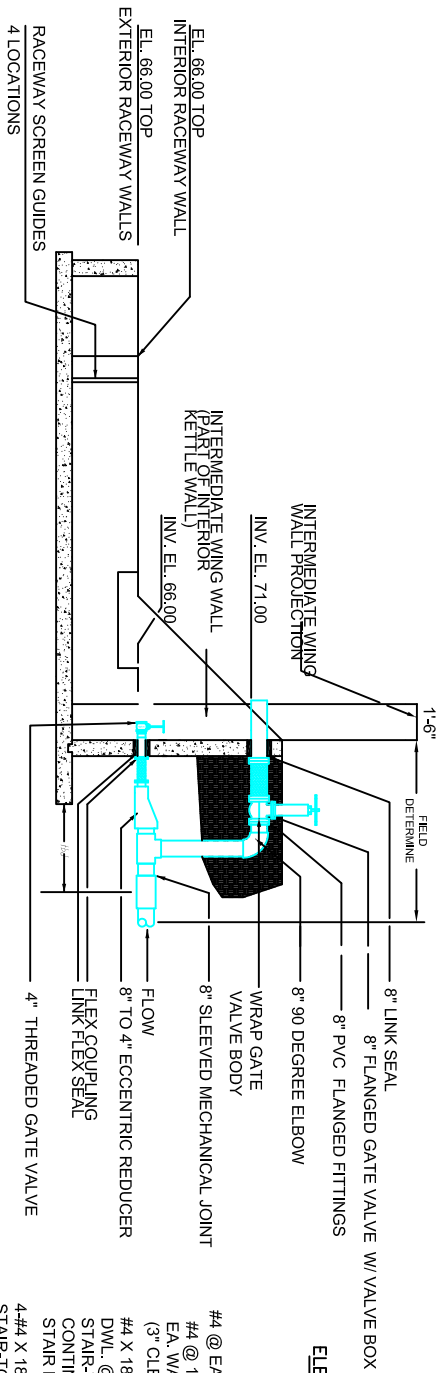
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of 10



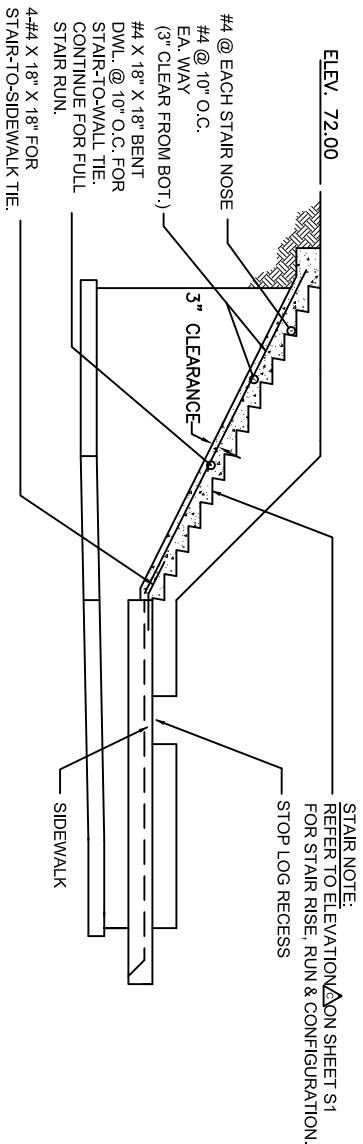
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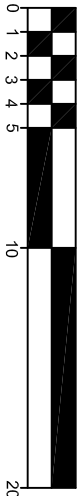
SECTION 3
7



SECTION 2
7



SECTION 4
7



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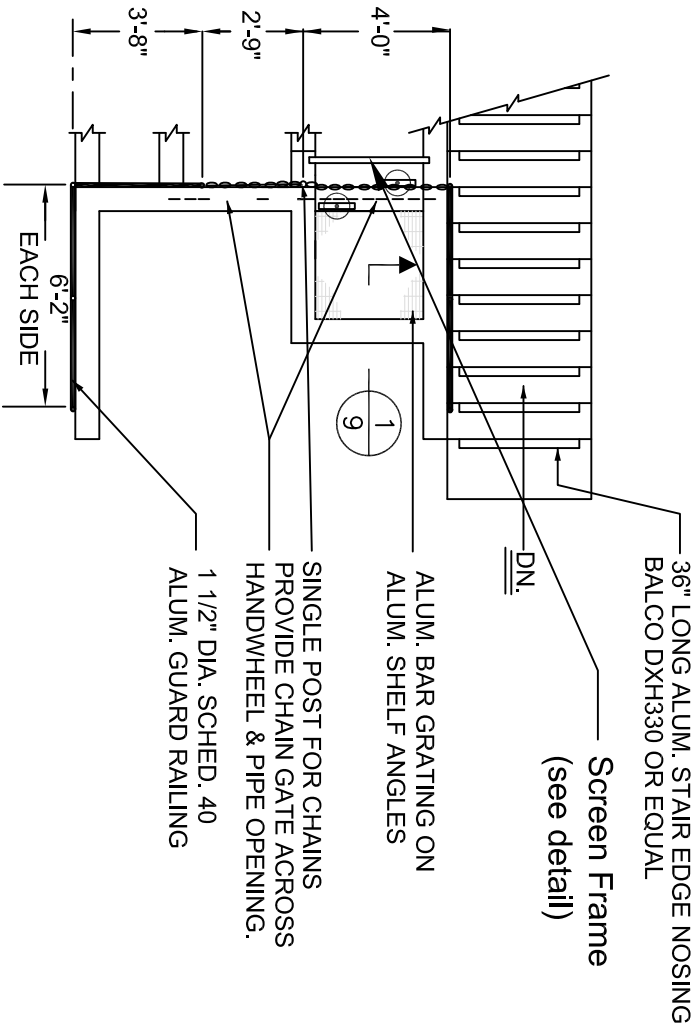


Montana Fish
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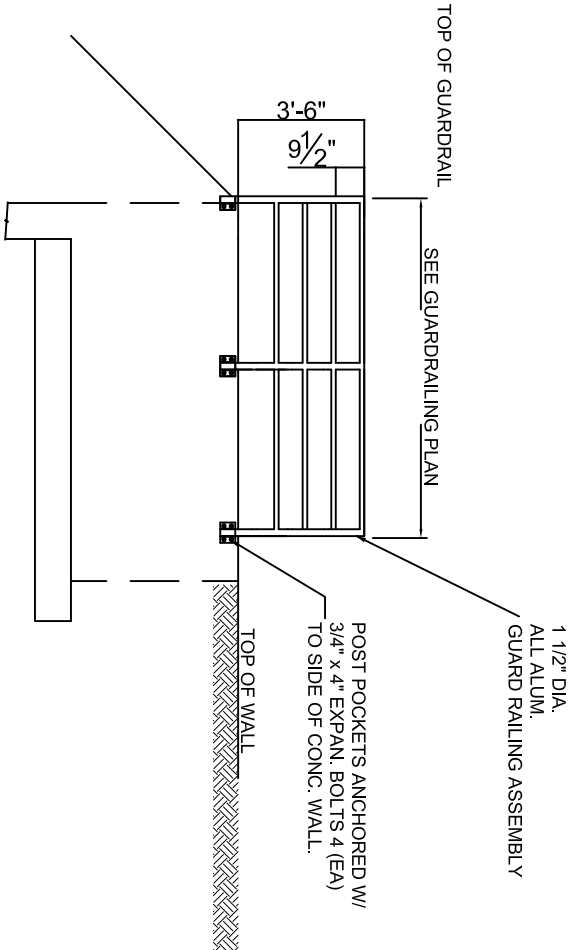
Kettle Structural Details
Miles City Fish Hatchery

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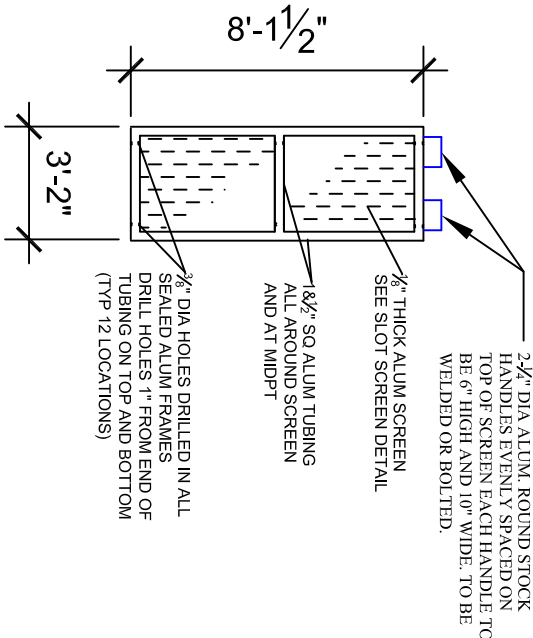
SHEET: 7 of 10



GUARD RAILING PLAN

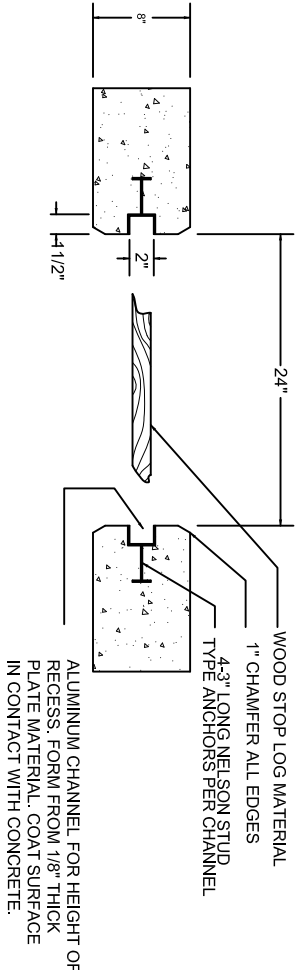


RAILING DETAIL

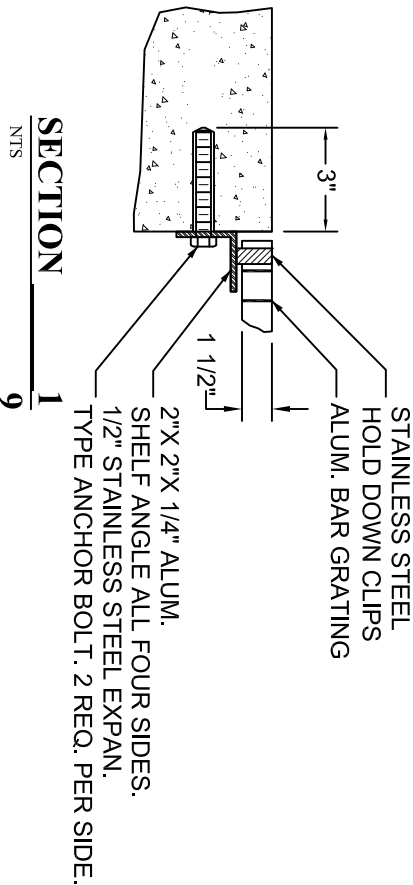


SCREEN FRAME DETAIL

NOTE: CONTRACTOR ONLY RESPONSIBLE FOR PROVIDING THE FULL SIZE SCREEN AND THE ALUMINUM WALL, NOT THE SMALL RACEWAY SCREENS.

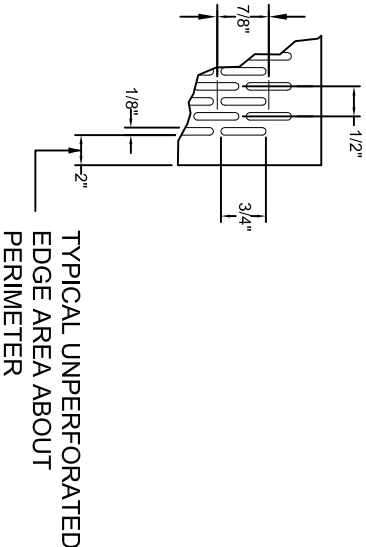


DAM BOARD DETAILS

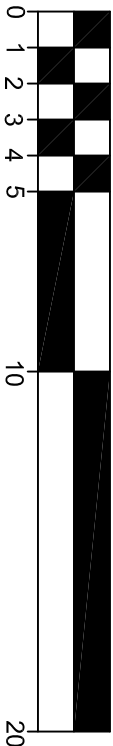


SECTION 1

NOTE: SCREENS SHALL HAVE 41% MIN. OPEN AREA.



SCREEN SLOT DETAIL



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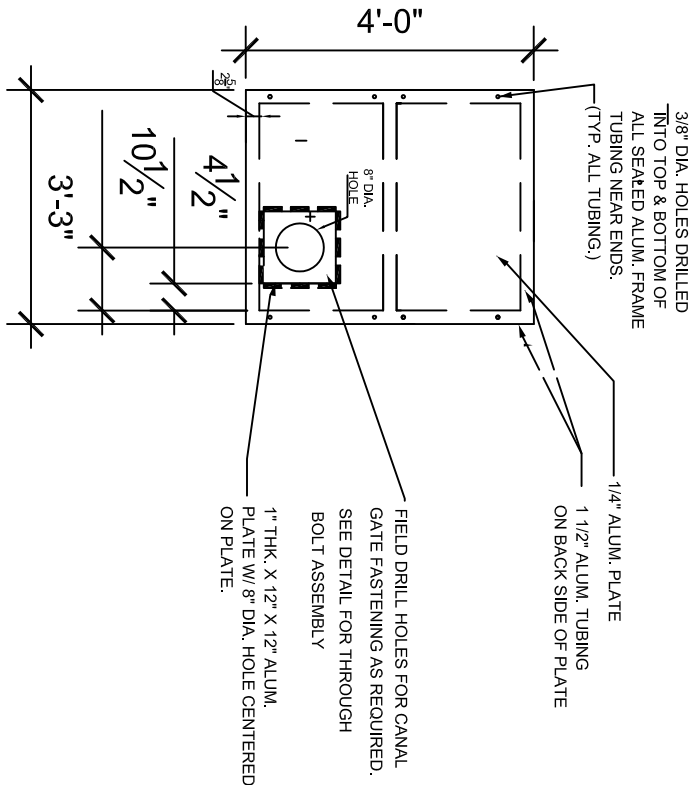
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Kettle Screen & Railing Details

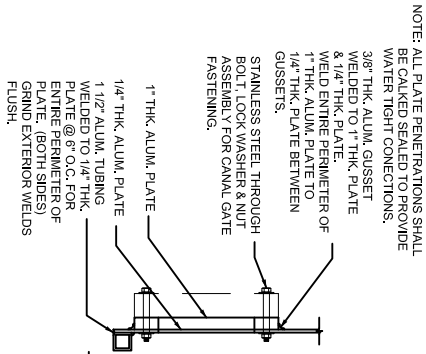
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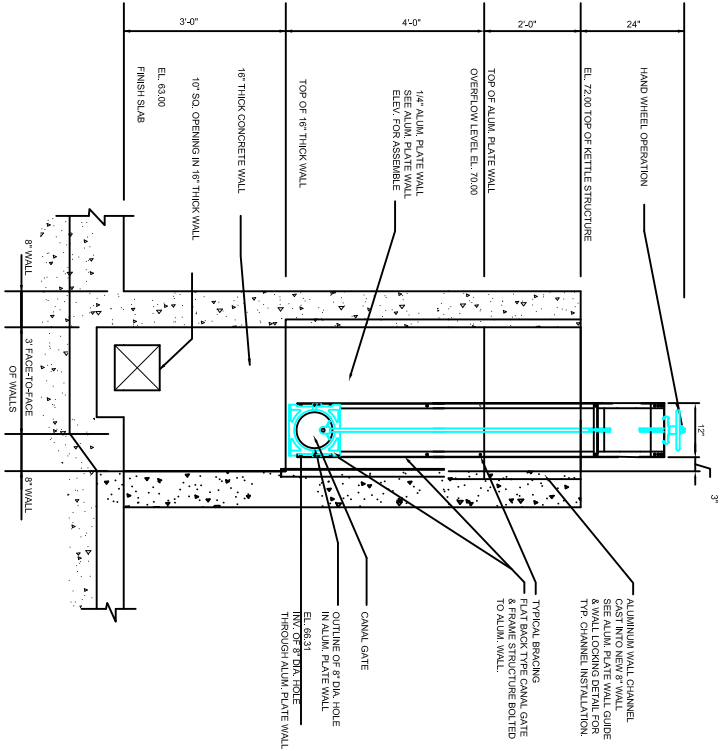
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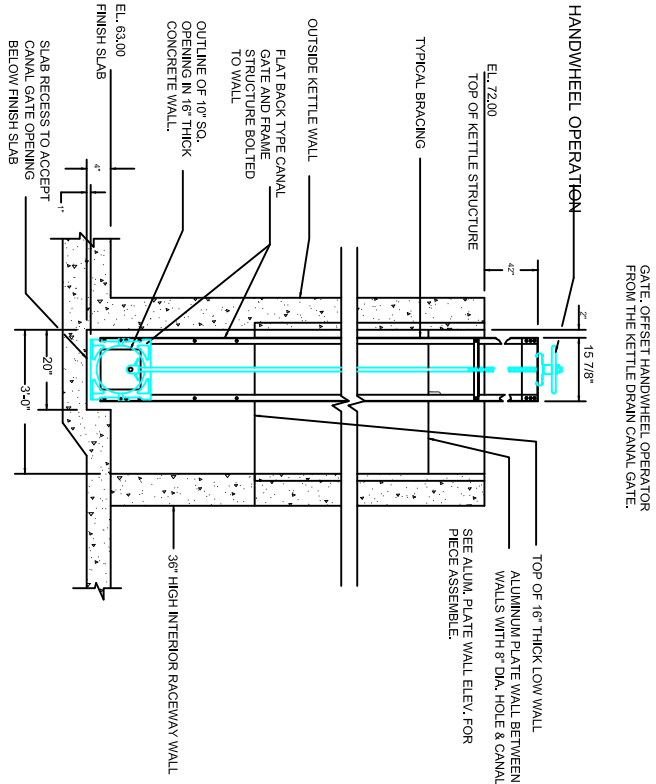
ALUMINUM WALL PLATE



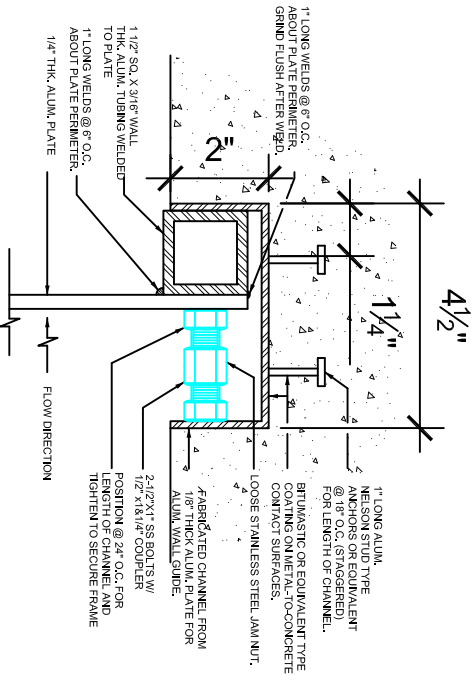
SLUICE GATE BACKING DETAIL



ALUMINUM WALL PLATE GATE ELEVATION



LOWER DRAIN GATE ELEVATION



ALUMINUM PLATE WALL GUIDE

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Aluminum Slide Gate Details

Miles City Hatchery

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